Installation Guide HyperStack Cable

9000 Series Stackable Chassis Switch





1. HyperStack Cables, 25 inch (2) 2. License Key Upgrade, HyperStack (1)

HyperStacking connects two QLogic 9200 model switches through the Inter-Chassis Connection (ICC) ports on the two pairs of CPU blades. Two HyperStack™ kits are required to successfully connect two switches. Each HyperStack kit contains one HyperStack license key and two cables. HyperStacking is not disruptive and can be done with both switches operational or both switches powered off.

Tools Required

- Crosshead screwdriver, medium
- Tie wraps (6)





Mount the Switches

Mount the switches in a rack, one on top of the other with no more than 1U of space between them. A cable loom can be installed in this space.

Horizontal clearance from the CPU blades to the rack opening or door should be 7–8 inches to allow for HyperStack cabling.

Refer to the *QLogic 9000 Series Stackable Chassis Switch Rack Mounting Guide* for detailed mounting instructions.



Verify Domain IDs

Verify that the two switches have different domain IDs. If they do not, change the domain ID of one of the switches using the Set Config Switch command.

Verify Firmware Version 7.8

Enter the Show Version command to verify that the two switches have firmware version 7.8 or later.

Install version 7.8 firmware, if necessary. Enter the Image command to download and unpack the firmware. Enter the Hotreset command to perform a non-disruptive activation. Switch #> show domains

Principal switch is (local): 10:00:00:c0:dd:07:4a:e8 Domain ID List:

Domain 1 (0x1) WWN = 10:00:00:c0:dd:07:4a:e8

Switch #>show version

SystemDescription	QLogic 9000 Series
HostName	<undefined></undefined>
EthIPv4NetworkAddress	10.20.11.192
EthIPv6NetworkAddress	::
MACAddress	00:c0:dd:00:71:ee
WorldWideName	10:00:00:c0:dd:00:71:ed
ChassisSerialNumber	FAM033100024
SymbolicName	Switch
ActiveSWVersion	V7.8.x.x.xx.xx
ActiveTimestamp	day month date time year
POSTStatus	Passed
PrimaryCPU	CPU0
SecondaryCPUStatus	HotStandby

Switch #> admin start
Switch (admin) #> image fetch account_name ip_address
filename

Switch (admin) \$> image unpack filename Wait for the unpack to complete. Image unpack command result: Passed

Switch (admin) \$> hotreset



Install HyperStack Licenses

Follow the directions on the *License Key Upgrade* document for each switch. Apply the respective license keys to each switch using the Feature Add command. Switch #> admin start

Log Msg: [day mon date hh:mm:ss.sss CST year][C][8400.006B][Switch][Upgrading License for HyperStack(tm)capability]

Log Msg: [day mon date hh:mm:ss.sss CST year][C][8400.0047][Switch][New licenses are being installed]

Connect the HyperStack Cables

Use a screwdriver to remove the covers from all ICC ports.

Connect a HyperStack cable to one of the ICC ports with the label side up as shown.

Secure the cable connector with the captive screws.



Complete the HyperStack Cable Connections

Connect the remaining HyperStack cable connectors as shown in the illustration. These copper cables are very flexible and can be bent as needed without damage.

NOTE:

This is the only cabling configuration that is supported. Any other configuration will result in an error.



2. Label facing up





Secure the HyperStack Cables

Secure the cables in place using ties wraps as shown. Secure the outer cables to the rack posts: secure the inner cables to each other. This reduces cable clearance to 7-8 inches and provides room for the removal of the Power Supply and Fan blades on the lower switch.



Confirm HyperStack Operation

Confirm that the ICC port Logged-In LEDs on all CPU blades are illuminated. This indicates that the switches are communicating.



LSDB ID

TSOREASON

Enter the Show Interconnect command to confirm each ICC port is online.

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			CPUO	ICCO	Online	0x1000	NotApplicable
				ICC1	Online	0x1001	NotApplicable
			CDI1	тееб		0	NotApplicable
			0101	TCCC	, onitine	01010	NOCAPPIICADIE
				ICC1	Online	0x1011	NotApplicable
Swi	tch #> s	show fab	ric				
Doi	main	WWN			Enet IP Addr	FC IP Addr	SymbolicName
 *1	(0x01)	10:00:0)0:c0:dd:07:4	a:e8	10.20.83.203	0.0.0.0	OLogic 9000
_	(0.00)	10.00.0			10.00.00.10	0.0.0.0	Q10910 0000
2	(UXU2)	10:00:0	JU:CU:dd:UU:6	a:2d	10.20.68.12	0.0.0.0	Orodic 2000
*	indicat	es prin	cipal switch				

Switch #> show interconnect

Blade ID ICC ID State



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